

REN-01-024.ST25-final.txt
SEQUENCE LISTING

<110> MONSANTO TECHNOLOGY LLC
Ruezinsky, Diane
Bennett, Kristen
Jander, Georg

<120> Production of Increased Oil and Protein in Plants by the Disruption of the Phenylpropanoid Pathway

<130> REN-01-024

<150> 60/427,313
<151> 2002-11-18

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<170> PatentIn version 3.1

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<212> DNA
<213> Glycine max

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<212> DNA
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<220>
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<223> n = unknown

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<210> 20
<211> 519
<212> DNA
<213> Glycine max

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		acatcgaaacg caccctcgtc gaaacccaac tcatcgacgca cgacaaagag gtctacgaca	180
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<210> 26
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<212> DNA
<213> Glycine max

<400> 26
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ggagaagcaa gcgtgggcaa ttcccaaata agagcctgag tatcatcacc agcagaacaa 300
aatatgcgtg gagctatgag gagccccagc aaatgcgttc acacttccac ggtgcctctc 360

<210> 27
<211> 476
<212> DNA
<213> Glycine max

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<210> 28
<211> 440
<212> DNA
<213> Glycine max

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<210> 29

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<211> 467
<212> DNA
<213> Brassica napus

<400> 29
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<210> 30
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<222> (208)..(302)
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<220>
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<222> (208)..(302)
<223> n = unknown

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<210> 31
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<212> DNA
<213> Arabidopsis thaliana

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<211> 1493
<212> DNA
<213> Hordeum vulgare

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<213> Zea mays

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<213> Zea mays

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<213> Oryza sativa

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<211> 464

<212> DNA

<213> Oryza sativa

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<213> Glycine max

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<400> 74
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cttcacaag atatatggat tagacagtga cactgcggag cacaacagtc tcaacagtga 240
gtccagggcc aaaaccaaac agcacacccc attcaaggcc ttcacctgtt gtgccaagtc 300
cattttctaa tgacttcctc ctcatttgc ccaagatgaa tagcacacat gcacttgaca 360
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aattgtaatc ggagattccc aagggttggaa aggcttcaac caaggccttc tcaatattct 540
tggagatgag tccaggaaca tccttgagga gatggaaagt gagaccaact tcgcgaaggt 600
gtccatcaat agccccttca ctgtctggaa ggattgtctg ggcagtccag acaagctgaa 660
acaatacaa 669

<210> 75
<211> 912
<212> DNA
<213> Glycine max

<400> 75 cccacgcgtc cggatactta ttgatctgtt tcatataatg ttgtatatca cagtcaaata 60
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ccaggaacat ccttgaggag atggaaagtg agaccaactt cgcgaagggtg tccatcaata 420
cccccttcac tgtctggaag gattgtctgg gcagtccaga caagctgaaa caaaggcttt
tcaactqqta aq 480
912

<210> 76
<211> 753

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<212> DNA
 <213> Glycine max

<400> 76
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 ttttcaaac tgaacagcaa agaatacata agaaaagaga aagatttgct gtcttaagaa 180
 aatactatta ctgatttagac actgactcaa ttactgatta gacagtgaca ctgcggagca 240
 caacagtctc aacggtgagt ccagggccga aaccaaatacg cacaccccg tcaaggcctt 300
 caccggttgt gccaagtcca ttttcttattt atttcttcctt catttgcattcc aagatgaata 360
 gcacacatgc acttgacatg ttaccatact cgctgagcac atgtcttagta gcttccattt 420
 tttcaggcctt caagcctaacc tttagcctcaa ctttgtccaa aattgcgggt ccaccagggt 480
 gtgcaatcca gaagatagaa ttgtaatcgg agattcccaa gggtttggaaag gcttcaacca 540
 aggcccttc aatattctt aagatgagtc caggaacatc cttgaggaga tggaaagtga 600
 gtcccaacttc gcgaagggtgg ccatcaatag ccccttcact gtctggaaagg attgtttggg 660
 cagtccagat aagctgaaac aaaggctttt caactggtaa ggggtctgat ccaacaatga 720
 cagcggctgc accatctcca aacaaggcta aac 753

<210> 77
 <211> 805
 <212> DNA
 <213> Glycine max

<400> 77
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 atgaccgagc tcaaagagaa atttcagcgc atgtgtatgt actgccatac tctcatctt 180
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 tccaaacatg tggatgaaatc tggcacccccc tttggatgct aggcaagaca tgggtgggt 720
 agaggtacca aagcttaggaa aagaggctgc agtaaaggcc ataaaggagt ggggccagcc 780
 aaagtcaag attacccact tgatc 805

<210> 78
 <211> 540

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<212> DNA

<213> Glycine max

<400> 78

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ggctattggc accgccactc ctcccaactg cgggtgtcaa agatcctctc ctggctgtta	180
cgttcacatg agcttctgcg ggcacataaa caggctgatc cattccttat ctctcatgag	240
gcattgccc tacatttacc ttcgatacac gtgcttaaac gggcagatcc tgcaagagaa	300
tccgagtgtt tgcgcttaca tggcacccctc gatggatgca aggcaagaca tggtggttgt	360
ggcggtagcca aagttggaa aagaggctgc aactcacgca atcatggaat ggggtcaacc	420
ccagtc当地 attacccatc tgatcttctg caccactgt ggtgtcgaca tgcctgggtgc	480
tgattatcag ctcactaaac tattaggcct tcgccccctac gtcaagcggtt acatgatgta	540

<210> 79

<211> 1310

<212> DNA

<213> Brassica napus

<400> 79

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ctcgaggact acaacaaccg catcgacatc ctctccttcg actccgactc catgtccctc	180
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tggattaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1310

<210> 80
<211> 584
<212> DNA
<213> Glycine max

<400> 80	aggtgcttat	aatggacac	cttcgtgagg	ttggactcac	attcacacctt	ctcaaggatg	60
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caagttgagc	aaaagtttagg	tctcaaacct	gagaagatga	aggccactag	agatgtgctt		240
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aaatctgctg	aaaatggact	taaaaccaca	ggtgaaggac	ttgaatgggg	tgtgtgttc		360
ggttttggac	ctggacttac	cattgaaact	gttgttctgc	gcagtgtggc	catctgagat		420
gcctaataata	ttatttcatt	attgtgtacc	actttcaaa	cttgctggag	tttgtaaaca		480
caacaacaac	aaaaaaaaaa	aaactcgaaa	agagttgtta	attgtgtacg	tttatattca		540
aataataata	catgttcgat	ggccttttag	cctaatttca	tgat			584

<210> 81
<211> 1527
<212> DNA
<213> Glycine max

<400> 81	acacttcagc	tacgttaggcc	cccccccaa	aaagtatttt	gaaatatttt	caaaagaccc	60
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gtaggacagg	ctctgttcgg	agacggtgcc	gccgcccgtca	tcattggcgc	ggatcctaag		780
cactccatcg	agcatccact	cttcgaactc	gtgttggctt	ctcaaaccac	tgtgcctgac		840
accgagaatg	cgatcaaagg	aagtcaacaa	gagaataggt	tggtttatta	tttggataag		900

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gctgttattg tgagtgggt tgaagagaAG ctagggtag agaaagagAA gctgagtgcg	1080
acatggcACG tgctgagCCA acacggAAC atgtggAGC caactgtgat ttttatcttg	1140
gatgagatga ggaacaggTC caagactgag gggaaagagCA caaccggTGA agggttagAG	1200
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aatgtAACat aatcgTTgTA tgtcacgATT gtttaAGAG tttggatATT gtaataatgA	1440
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aaaaaaaaAA actgagactA gtctctc	1527

<210> 82
<211> 1421
<212> DNA
<213> Lycopersicon esculentum

<400> 82	
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aagggcgcAT cgtcaaagg gaccagctAC tatcatggCC ataggcacGG cgactcCTtc	180
gaactgtgtt gatcaaAGCA cttatcCTGA ttattatTTT cgaatcactA atagtGAACA	240
tatgactgAG cttAaggAGA aatttAAAGCG catgtgtgat AAATCGATgA ttaataAGAG	300
atatatgcat ttaactgAAg AAATTTAAAG agAAAACCCa aatatttGTg aatacatgGC	360
tccttctttg gatgctAGAC aagatataGT ggtggTTgAA gtGCCAAAC ttggcaaAGA	420
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tgggcttcgA cttcggTTA agcggctCAT gatgtatCAA caaggTTgCT ttgctggTgg	600
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tacttagtat	ataatattac	taaagggggt	tataagttaa	atagattatc	tatgtaatct	1320
tatattatat	ttcttatatt	tggtgtatca	tgtatTTTATT	ttgtttcaa	ttgaaaaaaaaaa	1380
aaaaaaaaaaa	actcgataag	aaaaagttca	tttcccttt	g		1421

<210> 83

<211> 1416

<212> DNA

<213> Lycopersicon esculentum

<400> 83

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aaggcgcaac	gtgcagaggg	tccagctacg	atcttagcca	ttggaacatc	tacgccttct	180
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<210> 84

<211> 685

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<212> DNA

<213> Triticum aestivum

<400> 84

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tactagctcg tcggccgctg gtacgtacgt agatcccattc gatggcggcc accatgaccg	180
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<210> 85

<211> 929

<212> DNA

<213> Triticum aestivum

<220>

<221> misc_feature

<222> (3)..(39)

<223> n = unknown

<400> 85

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taaggccata aaggaatggg gccagccact gtccaagatc acgcacccctcg tcttctgcac	240
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<210> 86	
<211> 469	
<212> DNA	
<213> <i>Triticum aestivum</i>	
<220>	
<221> misc_feature	
<222> (400)..(414)	
<223> n = unknown	
<400> 86	
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tgcctcaagc tgagtatcca gactactact tccgcacatcac caacagtgaa cacatgaccg	240
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<210> 87	
<211> 563	
<212> DNA	
<213> <i>Triticum aestivum</i>	
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Lys Ala Gly Glu Glu Phe Phe Ser Leu Ser Val Glu Glu Lys Glu Lys
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Tyr Ala Asn Asp Gln Ala Thr Gly Lys Ile Gln Gly Tyr Gly Ser Lys
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Thr Ile Asp Leu Lys Asn Ile Glu Ser Asp Asp Glu Lys Ile Arg Glu
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 Page 78

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290 295 300

Cys Glu Pro Pro Lys Asp Lys Ile Val Leu Lys Pro Leu Pro Glu Met
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305

310

315

320

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<213> *Gossypium hirsutum*

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<400> 163	
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gggttcttcg cgttgcagcc caaggaaggg ctcgcctatcg tcaacggcac ggccgtgggc	120
tccggcctcg cggcgatcgt gctcttcgag gccaacgtcc tggccgtcct tgccgaggtc	180
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cacgcgtga agcaccaccc tggacagatc gaagctgcgg ccatcatgga gcacatactg	300
gaaggcagct cctacatgag gcttgccaag gagcaggcg aagcttgacc gtgttgacga	360
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aggtcatccg cttcgccacc aagtcgatcg agcggagat caactccgtc aacgacaacc	480
cggtcatcga cgtcgcccgc cgcaaggcgc tccaacggcg gcaacttcca gggcaactccc	540
atcggggtgt ccatggacaa caccgcctc gccatcgctg ccatcgccaa gctcatgttc	600
gcgcagttct cggagctcgt gaacgacttc tacaacaacg gcctgccatc caacctgtct	660
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tactgctccg agctgcagtt cttggcaac ccagtgcacca accacgtcca gagcgcggag	780
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ctgcggcaca tcgaggagaa cgtcaagagc gccgtcaaga gctgcgtcat gacgggtggcc	960
aagaagacac tcagcaccaa ctccaccggc gatctccacg tcgcacgctt ctgcgagaag	1020
gacctgctca aggagatcga ccgcgaggcg gtgttcgcgt acgcggacga cccgtgcagc	1080
cacaactacc cgctgatgaa gaagctgcgc aacgtgcgt tggagcgcgc cctcgccaa	1140
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gagctgcgcg	cgactctgcc	agggtgcgatc	gaggccgcac	gtgcggctgt	ggagaacggc	1260
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cacttatctt	tgtgttactc	aaaagaattc	ttcggtcat	agcggcaagc	atgcacagca	1620
aaccttggta	ccgagtgcag	gtttcaaaag	caactagtgt	tgtaacatata	aagttttgga	1680
tatcagagtg	ttgcaaata	ttaaaaaaaaaa	naaaaaaa			1717

<210> 164

<211> 1273

<212> DNA

<213> Oryza sativa

<400> 164

ctcgtccgc	tgtcctacat	tgccggcctt	gtcactggc	gcgagaacgc	cgtggcggtt	60
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ggcttctcg	agctgcagcc	caaggaaggc	cttgcctatgg	tcaatggcac	tgccgtggc	180
tctggccttg	catcgaccgt	gctctttag	gctaacattc	ttgcctatcct	cggcggaggtc	240
ctctcggccg	tgttctgcga	ggtgatgaac	ggcaagccgg	agtacaccga	ccacactgact	300
cacaagctca	agcaccatcc	aggacagatc	gaggccggccg	ccatcatgga	gcacatcttg	360
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ccgaagcaag	accggtaacgc	gctccggaca	tccccacagt	ggctcggccc	tcaaatttag	480
gttatccgcg	ccgcccacaa	gtccattcga	gcgtgagatc	aactccgtga	acgacaaccc	540
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cggcgtgtcc	atggacaaca	ccaggctcgc	cattgcccgc	atcggttaagc	tcatgttcgc	660
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cgc当地	ccgctcatga	agaagctcg	caacgtgctc	gtggagcgcg	ccctcgccaa	1200
cggcacggcc	gagttcgacg	ccgagacctc	cgtcttcgccc	aaggtcgccc	ggttcgagga	1260
ggagctccgc	gctcgc					1273

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<210> 165
<211> 1334
<212> DNA
<213> Oryza sativa

<400> 165
gcacgagccg gtcatcgacg tgcaccgcgg caaggccctg cacggcggca acttccaggc 60
acgcccggatc ggcgtgtcca tggacaacac ccgcctcgcc atcgccaaca tcggcaagct 120
catgttcgcc cagttctccg agctggtcaa cgagttctac aacaacgggc tcacgtcaaa 180
cctggccggc agccgcaacc cgagcttgg a tacggcttc aagggcaccg agatcgccat 240
ggcctcctac tgctcggagc tccagttcct cgccaacccg gtcaccaacc acgtccagag 300
cgccggagcag cacaaccagg acgtcaactc cctcggcctc gtctccgcca ggaagaccgc 360
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cgtcgacctg cgccacctgg aggagaacct caagagcgcc gtcaagaact gcgtgacgac 480
ggtggccaag aaggtgctca ccacgggccc cgccggcggc ctccacagcg cgcgcttcag 540
cgagaaggcc ctgctcaccg ccatcgaccg cgaggccgtg tacagctacg ccgacgaccc 600
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gaccggcacc ggcggatca ccaacaggat caaggagagc aggtcggtcc cgctgtaccg 840
cttcgtccgc gaggagctcg gctgcgtta ctcacccgga gagaagctca agtccccgg 900
cgaggagtgc aacaagggtgt tcctggccat cagcgagcgc aagctcatcg acccgatgt 960
cgagtgcctc aaggagtgg a cggcgagcc cctgcccatt tgctgatcga accagtccac 1020
ccgcgaacgc gacaagatcc aggaagagac gatacgtca ccgaaataag aaaggggagga 1080
attcaggatc ctgaaggctt ctcgtacgt catcagcaga ttacgttgtt tctccgtccg 1140
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ctgctgcaat gccgtggcgc ctgcagcggtt catggcattt gctggcagct ttctgattcc 1260
gttggatgtat tttgcaagtg aaatatacta atatagcgct atcttgatttta catgtgttga 1320
aaaaaaaaaa caaa 1334

<210> 166
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Primer WER_Nco

<400> 166
ttcccatggt ttttggct ttgaatgata gac 33

<210> 167

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<211> 38
<212> DNA
<213> Artificial

<220>
<223> Primer wer_5' #2

<400> 167
gtttaaacgg cgcgccgtca aagtgtcaaa ccatcttc

38

<210> 168
<211> 395
<212> PRT
<213> Arabidopsis thaliana

<400> 168

Met Val Met Ala Gly Ala Ser Ser Leu Asp Glu Ile Arg Gln Ala Gln
1 5 10 15

Arg Ala Asp Gly Pro Ala Gly Ile Leu Ala Ile Gly Thr Ala Asn Pro
20 25 30

Glu Asn His Val Leu Gln Ala Glu Tyr Pro Asp Tyr Tyr Phe Arg Ile
35 40 45

Thr Asn Ser Glu His Met Thr Asp Leu Lys Glu Lys Phe Lys Arg Met
50 55 60

Cys Asp Lys Ser Thr Ile Arg Lys Arg His Met His Leu Thr Glu Glu
65 70 75 80

Phe Leu Lys Glu Asn Pro His Met Cys Ala Tyr Met Ala Pro Ser Leu
85 90 95

Asp Thr Arg Gln Asp Ile Val Val Val Glu Val Pro Lys Leu Gly Lys
100 105 110

Glu Ala Ala Val Lys Ala Ile Lys Glu Trp Gly Gln Pro Lys Ser Lys
115 120 125

Ile Thr His Val Val Phe Cys Thr Thr Ser Gly Val Asp Met Pro Gly
130 135 140

Ala Asp Tyr Gln Leu Thr Lys Leu Leu Gly Leu Arg Pro Ser Val Lys
145 150 155 160

Arg Leu Met Met Tyr Gln Gln Gly Cys Phe Ala Gly Gly Thr Val Leu
165 170 175

Arg Ile Ala Lys Asp Leu Ala Glu Asn Asn Arg Gly Ala Arg Val Leu
180 185 190

Val Val Cys Ser Glu Ile Thr Ala Val Thr Phe Arg Gly Pro Ser Asp
195 200 205

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Thr His Leu Asp Ser Leu Val Gly Gln Ala Leu Phe Ser Asp Gly Ala
210 215 220

Ala Ala Leu Ile Val Gly Ser Asp Pro Asp Thr Ser Val Gly Glu Lys
225 230 235 240

Pro Ile Phe Glu Met Val Ser Ala Ala Gln Thr Ile Leu Pro Asp Ser
245 250 255

Asp Gly Ala Ile Asp Gly His Leu Arg Glu Val Gly Leu Thr Phe His
260 265 270

Leu Leu Lys Asp Val Pro Gly Leu Ile Ser Lys Asn Ile Val Lys Ser
275 280 285

Leu Asp Glu Ala Phe Lys Pro Leu Gly Ile Ser Asp Trp Asn Ser Leu
290 295 300

Phe Trp Ile Ala His Pro Gly Gly Pro Ala Ile Leu Asp Gln Val Glu
305 310 315 320

Ile Lys Leu Gly Leu Lys Glu Glu Lys Met Arg Ala Thr Arg His Val
325 330 335

Leu Ser Glu Tyr Gly Asn Met Ser Ser Ala Cys Val Leu Phe Ile Leu
340 345 350

Asp Glu Met Arg Arg Lys Ser Ala Lys Asp Gly Val Ala Thr Thr Gly
355 360 365

Glu Gly Leu Glu Trp Gly Val Leu Phe Gly Phe Gly Pro Gly Leu Thr
370 375 380

Val Glu Thr Val Val Leu His Ser Val Pro Leu
385 390 395

<210> 169
<211> 29
<212> DNA
<213> Artificial

<220>
<223> Primer Sequence

<400> 169
accatggttg cggttgaaag agttgagag

29

<210> 170
<211> 30
<212> DNA
<213> Artificial

<220>

REN-01-024.ST25-final.txt

<223> Primer Sequence
<400> 170
gtcgacgcgg ccgctcattt ttctcgata 30

<210> 171
<211> 30
<212> DNA
<213> Artificial

<220>
<223> Primer Sequence
<400> 171
gcggccgctc agaagatagg agcgtttag 30

<210> 172
<211> 23
<212> DNA
<213> Artificial

<220>
<223> Primer Sequence
<400> 172
acgctaacag atcggAACCG gag 23

<210> 173
<211> 25
<212> DNA
<213> Artificial

<220>
<223> Primer Sequence
<400> 173
acgcgtttct gcgagaaaga cttac 25

<210> 174
<211> 25
<212> DNA
<213> Artificial

<220>
<223> Primer Sequence
<400> 174
gacgtccaaa ggatacgacc tacac 25

<210> 175
<211> 24
<212> DNA
<213> Artificial

<220>
<223> Primer Sequence
<400> 175
gacgtccatc ctcaagctta tgtc 24

<210> 176
<211> 24

REN-01-024.ST25-final.txt

<212> DNA
<213> Artificial

<220>
<223> Primer Sequence

<400> 176
gtcgactctc agtctcacccg ttag

24